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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,684	10/16/2001	Dong-Gyu Kim		3843
32605 MACPHERSO	7590 06/14/200 N KWOK CHEN & H	•	EXAM	IINER
2033 GATEWAY PLACE			NGUYEN, DUNG T	
SUITE 400 SAN JOSE, CA 95110			ART UNIT	PAPER NUMBER
,			2871	
			MAIL DATE	DELIVERY MODE
		•	06/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	09/977,684	KIM, DONG-GYU
Office Action Summary	Examiner	Art Unit
	Dung Nguyen	2871
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status	•	
1) Responsive to communication(s) filed on 30 N	farch 2007	•
	s action is non-final.	
3) Since this application is in condition for allowa closed in accordance with the practice under E	nce except for formal matters, pro	•
Disposition of Claims		
4) ☐ Claim(s) 6,7 and 20-25 is/are pending in the a 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 6-7,20-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine		
10) The drawing(s) filed on is/are: a) acc		
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		•
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		•
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

DETAILED ACTION

Continued Examination Under 37 CFR 1,114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/30/2007 has been entered.
- 2. Applicant's response dated 02/28/2007 has been received and entered. Claims 6-7 and 20-25 are now pending in the application.

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claim 6 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US Patent No. 5633,739, in view of Takao et al., US Patent No. 5,568,293.

Regarding claim 6, Matsuyama disclose a method for fabricating a liquid crystal display (LCD)(figure 11a-11e) comprising the step of:

- . forming a black matrix (BM) on a substrate (SUB2);
- forming a plurality of color filters (FIL(B/R/G)), each the color filter has a flat central portion and a peripheral portion.

Matsuyama et al, however, do not disclose the peripheral portions of the neighboring color filter overlap and contact each other and having a taper angle less than 40 degrees. Takao

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et al. do disclose a color filter (B/G/R) can be overlapped and contacted to each other with a taper angle less than 40 degrees (respect to the normal line)(see figure 4A). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to modify the Matsuyama et al. color filter having at least a part of the peripheral portion overlapping to each other with a taper angle less than 40 degrees as shown by Takao et al. in order to reduce alignment effect (col. 2, ln 9-13).

3. Claim 7 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US Patent No. 5633,739, in view of Takao et al., US Patent No. 5,568,293, further in view of Nakamura et al., US Patent No. 5,725,975.

Regarding claim 7, the modification to Matsuyama et al. disclose the claimed invention as stated above except for using a mask to pattern the color filter. Nakamura et al. do disclose a mask having three different regions as claimed for forming a color filter (figure 5B, col. 6). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to use a mask having three different regions making the Matsuyama et al color filter as shown by Nakamura et al. in order to obtain a high accuracy and efficiency at a low cost (col. 2, ln 24-29).

Claims 20-25 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US Patent No. 5633,739, in view of Takao et al., US Patent No. 5,568,293, further in view of Kim, US Patent No. 6,567,150.

Regarding the above claims, the modification to Matsuyama et al. disclose the claimed invention as stated above except for the step of forming a plurality of gate/data lines, a thin film transistor (TFT). Kim does disclose the step of forming a plurality of gate lines, a plurality of

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data lines as well as a TFT (bridging paragraph from col. 1 to col. 2) Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ the Matsuyama et al. device a plurality of gate/data lines and a TFT as shown by Kim for display driving purposes.

Response to Arguments

5. Applicant's arguments filed 02/28/2007 have been fully considered but they are not persuasive.

Regarding claim 6, Applicant contends that the modification to Matsuyama (in view of Takao) does not disclose or suggest that "the peripheral portions of the neighboring color filters overlap and contact each other and have a taper angle less than 40 degrees". The Examiner is not convinced by this argument since the same is true of the combination of Matsuyama et al. and Takao et al. color filter. It should be note that Matsuyama et al. do disclose how to perform a color filter (FIL B/R/G) over a substrate (SUB2) with a black matrix therebetween (BM)(see figures 11a-11e), the modification to Matsuyama in view of Takao et al. is to form the Matsuyama et al. color filter in contact and overlap to each other as shown in figure 4A; so as such combination of Matsuyama et al. and Takao et al. color filter and the Applicant's color filter would be the same as well.

Accordingly, such the above claims stand rejected as noted.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN 11/27/2006

Dung Nguyen Primary Examiner Art Unit 2871